

Abstract

An apparatus for wireless instant real-time measurement of processing and handling produce and goods is presented. Electronic sensors monitor various physical parameters, sensor output measurements are analyzed, and reports are conveyed wirelessly in real-time to a remote display device for instant display and further analysis. Measurement profiles provided prove useful in determining optimum operating parameters ensuring high efficiencies in processing, storing, transport, and handling of produce and goods. Multiple sensor output measurements are combined to derive operating parameters which are reported along side sensor output measurements. Processing sensor output measurements also enables raising alarms when environmental extremes are experienced. The monitoring, detection, measurement and gathering of the environmental conditions data is found to be important in preventative maintenance, handling efficiency and performance monitoring in food safety and quality programs. The apparatus provides handlers with directed information on what processing and handling issues to address to recover revenues previously accepted as lost product and packaging.